PATENT COOPERATION TREATY

To: see form PCT/ISA/220				PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)	
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below	
	nal application N (2004/000614		International filing date (d 16.09.2004	i ay/month/year)	Priority date (day/month/year) 10.10.2003
nternatio		ification (IPC) or	both national classification	and IPC	
Applicant OTICO	t				
2. Fit with in wi	Box No. II Box No. III Box No. IV Box No. V Box No. VI Box No. VIII Box No. VIII Box No. VIII URTHER ACTI a demand for i ritten opinion of the applicant cheternational But ill not be so co this opinion is, ubmit to the IP inonths from the chichever expire or further option	Basis of the operation of the International preference as a written registrer. Basis of the operation of the International preference as a Authoreau under Rule as provided as EA a written registrer.	ment of opinion with regard invention tement under Rule 43 bisitations and explanations ments cited as in the international appropriate in the international appropriate in the international eliminary examination is all Preliminary Examining other than this one to be 66.1 bis(b) that written one over, considered to be a ply together, where appropriate in the control of Form PCT/ISA/220 or por form PCT/ISA/220 or form PCT/IS	ard to novelty, inverse. 1(a)(i) with regard a supporting such a supporting such a supporting such a supplication and application application application application application application application of this interprise with amend	to novelty, inventive step or industrial tatement will usually be considered to be a con
				Authorized Officer	
Name a	NL-2280 Tel. +31 7			Fülöp, I Telephone No. +3	

10/574926 IAP9 Rec'd PCT/PTO 07 APR 2005

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/DK2004/000614

	Box I	No. I Basis of the opinion				
1.	With	regard to the language, this opinion has been established on the basis of the international application in nguage in which it was filed, unless otherwise indicated under this item.				
	la	This opinion has been established on the basis of a translation from the original language into the following anguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).				
2.	With nece:	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. typ	e of material:				
		a sequence listing				
		table(s) related to the sequence listing				
	b. for	mat of material:				
		in written format				
		in computer readable form				
	c. tim	ne of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	(In addition, in the case that more than one version or copy of a sequence listing and/or table relating there has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Addi	tional comments:				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-7,9

No: Claims

1,8

Inventive step (IS)

Yes: Claims

2-7,9

No: Claims

1,8

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations

see separate sheet

PCT/DK2004/000614

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: DE 101 45 994 A1 (SIEMENS AUDIOLOGISCHE TECHNIK GMBH) 17 April 2003 (2003-04-17)

D2: US-A-5 396 560 (ARCOS ET AL) 7 March 1995 (1995-03-07)

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 and 8 is not new in the sense of Article 33(2) PCT.

Document D1, which appears to be the closest prior art document, discloses all the features of independent claims 1 and 8 (see, especially, paragraphs [0013], [0016], [0018] and [0020].

Claims 1 and 8 infringe thus Article 33(2) PCT.

2. The combination of the features of dependent claims 2-7 and 9 is neither known from, nor rendered obvious by, the available prior art.

The subject-matter of **claim 2** differs from the method disclosed in document D1 in that "the short term energy in the signals is determined" and "the change in difference over time in the short time energy between the microphone signals is determined".

The subject-matter of claim 2 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may therefore be regarded as how to improve the way of recognizing when the casing of a hearing aid has been touched by the user.

The solution to this problem proposed in **claim 2** of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

- document D1 discloses a method in which the duration of / between successive knocks is determined and consequently the signal processing is affected. D1 does not suggest, however, any other way of detecting when a user has touched the hearing aid casing;
- although document D2 discloses the use of short term energy analysis in order to detect when a signal has reached the input microphone, there is no hint as to use this method in a combination of microphones nor is D2 suggesting the use of this method in order to solve the above mentioned problem.

Claims 3-7 and 9 are either dependent on claim 2 or corresponding to previous claims dependent on claim 2. Therefore, claims 3-7 and 9 also meet the requirements of the PCT with respect to novelty and inventive step.